

~~SECRET~~

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HX-25

23 February 1961

25X1A

[REDACTED] *JEN/C*
Post Office Box 1407
Main Post Office
Washington 13, D. C.

2 Mar 61

Gentlemen:

Enclosed herewith are four (4) copies of the status report of technical progress on the photographic rectifier for the month of December, 1960.

A copy of the report is being submitted directly to the Contracting Officer.

Very truly yours,

cc: Contracting Officer

25X1A

Declass Review by NIMA/DOD

~~SECRET~~

PHOTOGRAPHIC RECTIFIER - PRINTER

Report of Technical Progress

I. Progress during December 1960 - January 1961

STATINTL
Reading and printing as a system was accomplished in December. 1:1 and 4:1 enlargement tapes were made for this testing and proved satisfactory. The first rectification tape from [redacted] was incorrect but the one received 8 February 1961 has required only a few corrections.

The master control panels were completed and installed. The following were assembled: two track and lead screws, two CRT housings, one CRT control, one X and Y sweep attenuator, one X and Y servo, one set interconnecting cables, one printer platen, three printer programmers, one scan comparator, one 28V power supply.

A new type tape reader was investigated and ordered. We will receive the first of the three required in March. The major improvement is in the mechanical construction of the reading head by using solid pins to read through the tape instead of a trifurcated brush.

II. Anticipated Progress during February

The cabling (internal) will be completed on No. 2 reader printer and console and the majority of assembly and fabrication of unit 2 will be completed. The mechanical assembly of consoles No. 3 and 4 and No. 3 reader and printer will be completed. Testing with No. 1 unit will continue in anticipation of a demonstration the first part of March.

STATINTL



Project Engineer

JVS:kp

encls.

PHASE DIAGRAM FOR READER

Approved For Release 2002/06/17 : CIA-RDP78B04747A000600080003-5

| | Pre-Design | Design | Release | Purchase Parts | Fabrication | Assembly |
|---------------------------------|------------|--------------|----------|---------------------|-------------|------------|
| Structure | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| CRT Housing | Complete | Complete | Complete | Complete | 3 Complete | 2 Complete |
| CRT Elect. Parts | Complete | Complete | Complete | 1 Complete | | |
| Track Assy., X Drive Lead Screw | Complete | Complete | Complete | Complete less motor | Complete | 2 Complete |
| Valve, Pneu. & Vacuum | Complete | Complete | Complete | Complete | Complete | Complete |
| Doors | Complete | Complete | Complete | Complete | Complete | In Work |
| Focus Current Regulator | Complete | Complete | Complete | Complete | Complete | Complete |
| X Deflection Amp. | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Y Deflection Amp. | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| X Sweep Attenuator | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Y Sweep Attenuator | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Power Supply 20kv | Complete | Complete | Complete | Complete | Complete | 3 Complete |
| Power Supply 1kv | Complete | Complete | Complete | Complete | Complete | Complete |
| PMT Drive & Servo | Complete | Complete | Complete | Complete | Complete | Complete |
| Platen & Index Assy. | Complete | Complete | Complete | Complete | 2 Complete | 2 Complete |
| Film Index Drive & Servo | Complete | Complete | Complete | Complete | 2 Complete | 2 Complete |
| PM Assy. & Video Amplifier | Complete | Complete | Complete | Complete | Complete | Complete |
| Optisyn Pre-Amp | Complete | Complete | Complete | Complete | Complete | Complete |
| Check Pulse Transistor Amp | Complete | Complete | Complete | Complete | Complete | Complete |
| Dodging Commutator | Complete | Complete | Complete | Complete | 1 Complete | 1 Complete |
| Sweep Linearizer | Complete | Complete | Complete | Complete | 1 Complete | 1 Complete |
| CRT Control | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Dynamic Focus | Complete | 75% Complete | Complete | Complete | 1 Complete | 1 Complete |
| Cables (Internal) | Complete | Complete | Complete | Complete | 2 Complete | 1 Complete |

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| | Pre-Design | Design | Release | Purchase Parts | Fabrication | Assembly |
|---------------------------------|------------|------------|----------|----------------------|-------------|-------------------------|
| Structure | Complete | Complete | Complete | Complete | 2 Complete | 1 Complete 1 In work |
| CRT Housing | Complete | Complete | Complete | Complete | 3 Complete | 1 Complete |
| CRT Elect. Parts | Complete | Complete | Complete | 1 Complete | Complete | |
| Track Assy., X Drive Lead Screw | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Valve, Pneu. & Vacuum | Complete | Complete | Complete | Complete | Complete | Complete |
| Doors | Complete | Complete | Complete | Complete | Complete | Complete |
| Focus Current Regulator | Complete | Complete | Complete | Complete | Complete | Complete |
| X Deflection Amp. | Complete | Complete | Complete | Complete | Complete | 1 Complete |
| Y Deflection Amp. | Complete | Complete | Complete | Complete | Complete | 1 Complete |
| X Drive Assy. | Complete | Complete | Complete | Complete less motors | Complete | 3 Complete |
| Film Index | Complete | Complete | Complete | Complete | Complete | 1 Complete |
| Lens Board | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Platen | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Cassettes | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Vacuum Pump | | | | Complete | | 2 Complete |
| Power Supply 20kv | Complete | Complete | Complete | Complete | Complete | 3 Complete |
| Power Supply 90V | Complete | Complete | Complete | Complete | Complete | Complete |
| Program Relay Control | Complete | Complete | Complete | Complete | Complete | Complete |
| Gurley Disc Assy. | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Check Pulse Transistor Amp | Complete | Complete | Complete | Complete | Complete | Complete |
| HiFreq. Xsistor Amp | Complete | Complete | Complete | Complete | Complete | Complete |
| Check Pulse Separator | Complete | Complete | Complete | Complete | Complete | Complete |
| Sweep Linearizer | Complete | Complete | Complete | Complete | 1 Complete | 1 Complete |
| CRT Control | Complete | Complete | Complete | Complete | Complete | 1 Complete |
| Dynamic Focus | Complete | 75% Compl. | | | 1 Complete | |

PHASE DIAGRAM FOR CONSOLE

| | Pre-Design | Design | Release | Purchase Parts | Fabrication | Assembly |
|-------------------|------------|----------|----------|----------------|-------------------------|-------------------------|
| Y Index Register | Complete | Complete | Complete | Complete | 2 Complete | 2 Complete |
| Monitor Scope | Complete | Complete | | Complete | Complete | 2 Complete |
| Video Control | Complete | Complete | | Complete | Complete | 1 Complete |
| Sweep Generator | Complete | Complete | | Complete | 2 Complete 2 In Work | 1 Complete 1 In Work |
| Power Control | Complete | Complete | Complete | Complete | 2 Complete | 1 Complete |
| Program Control | Complete | Complete | Complete | | In Work | |
| Power Supply 125V | Complete | Complete | Complete | Complete | Complete | Complete |
| Power Supply 300V | Complete | Complete | Complete | Complete | 3 Complete | 2 Complete |
| Scan Servo | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Scan Comparator | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Scan Computor | Complete | Complete | Complete | Complete | Complete | 2 Complete |
| Tape Reader | Complete | Complete | | Complete | 1 Complete | 1 Complete |
| Power Supply 6.3V | Complete | Complete | Complete | Complete | Complete | 5 Complete |
| Transportape | Complete | Complete | | Complete | Complete | Complete |
| Power Supply 28V | Complete | Complete | Complete | Complete | Complete | 3 Complete |
| Cables (internal) | Complete | Complete | Complete | | 2 Complete | 1 Complete |
| Rack | Complete | Complete | Complete | Complete | 2 Complete | 2 Complete 2 In work |

STATINTL

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